

Title (en)

An electric switch control unit, more particularly for electric motor driven actuators.

Title (de)

Steuereinheit mit elektrischem Schalter, insbesondere für elektromotorisch angetriebene Betätigungsvorrichtungen.

Title (fr)

Unité de commande à interrupteur électrique, en particulier pour mécanismes de manoeuvre entraînés par moteur électrique.

Publication

EP 0005016 A1 19791031 (EN)

Application

EP 79300530 A 19790330

Priority

GB 1315278 A 19780404

Abstract (en)

The control unit comprises an input drive shaft (24) which is drivably connected with separate switching mechanisms for operating a close direction switch (61a) or an open direction switch (62a). Each switching mechanism comprises an adjustable counter for setting the actuator stroke, the counter including a counter shaft (18) driven by shaft (24) and having counter gears (13, 14) thereon which mesh with counter pinions (12) on a counter pinion shaft (10). The shaft (10) carries a cam (11) operating a limit cam plate (28), which actuates an adjustable torque limit shaft (35) carried by a switch actuator (42) so as to actuate the switch (61a) when limit operation is selected. <??>Torque operation is obtained from the wormshaft of the actuator through a linkage (103) and a torque member (106) which actuates one or other of the adjustable cams (38) on shaft (36) also carried by the switch actuator (42). <??>A latch member (49) operable at any time during the stroke of the actuator prevents resetting of the switch actuator (42) until the actuator moves in the opposite direction, the latch member (49) being released by a release drive shaft (48) operable from input drive shaft (24). <??>A torque switch cut-out lever (37) prevents operation of the opposite switch actuator (43) until the actuator moves and the first switch actuator (42) resets.

IPC 1-7

H01H 3/16; **F16K 31/05**

IPC 8 full level

H01H 21/28 (2006.01); **F16K 31/05** (2006.01); **G05G 15/04** (2006.01); **H01H 19/18** (2006.01)

CPC (source: EP US)

F16K 31/05 (2013.01 - EP US); **H01H 19/18** (2013.01 - EP US)

Citation (search report)

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- GB 1214831 A 19701202 - ENGLISH ELECTRIC CO LTD [GB]
- US 3463891 A 19690826 - FRY JEREMY J
- US 3675751 A 19720711 - FORTNER WILLIAM D
- US 3288962 A 19661129 - JOSEPH FRY JEREMY
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Cited by

FR2476378A1; CN104500824A; EP0490826A1

Designated contracting state (EPC)

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EP 0005016 A1 19791031; JP S5510697 A 19800125; US 4288665 A 19810908

DOCDB simple family (application)

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